

**Notice of Allowability**

Application No.

10/634,173

Examiner

Dac V. Ha

Applicant(s)

JAVOR ET AL.

Art Unit

2611

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment filed on 02/22/07.
2. ☒ The allowed claim(s) is/are 1-31, renumbered as 1-31, respectively.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
  1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

Dac V. Ha  
Primary Examiner  
Art Unit: 2611

***Allowable Subject Matter***

1. Claims 1-31 are allowed.
2. The following is a statement of reasons for the indication of allowable subject matter:

Upon further consideration and comparison with prior art of record (closest reference, Sugar et al. – US 6,728,517), the examiner agrees with applicant's argument in the REMARKS filed on 02/22/07. Particularly, prior art of record, taking individually or collectively, fails to fairly teach the claimed subject matter “a substrate; a first microelectronic die mounted on said substrate, said first microelectronic die including a first receiver front end to process a signal received by a first antenna; a second microelectronic die mounted on said substrate, said second microelectronic die including a second receiver front end to process a signal received by a second antenna, said second microelectronic die being different from said first microelectronic die; a third microelectronic die mounted on said substrate, said third microelectronic die including analog baseband circuitry to process baseband output signals of said first and second receiver front ends~ said third microelectronic die being different from said first and second microelectronic dies; a first interconnect coupled between an output of said first microelectronic die and a first input of said third microelectronic die; and a second interconnect coupled between an output of said second microelectronic die and a second input of said third microelectronic die”, in independent claim 1 and similarly in independent claim 19 (claims 2-12, 20-26 depend therefrom); “a first low noise amplifier (LNA) having a differential input to receive a signal from a first antenna; a second LNA

having a single-ended input to receive a signal from a second antenna; a first mixer to perform a frequency conversion on an amplified output signal of said first LNA; a second mixer to perform a frequency conversion on an amplified output signal of said second LNA; and a voltage controlled oscillator (VCO) to provide a local oscillator signal to said first and second mixers" in independent claim 13 and similarly in independent claim 27 (claims 14-18 and 28-31 depend therefrom. Thus, claims 1-31 are found to be novel and unobvious over prior art of record.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dac V. Ha whose telephone number is 571-272-3040. The examiner can normally be reached on 5/4.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jay Patel can be reached on 571-272-2988. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Application/Control Number: 10/634,173  
Art Unit: 2611

Page 4

A handwritten signature in black ink, appearing to read 'Dac V. Ha', with a horizontal line drawn underneath the signature.

Dac V. Ha  
Primary Examiner  
Art Unit 2611